

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

PCT/JP2003/012760


(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 664056	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/JP2003/012760	International filing date (day/month/year) 06 October 2003 (06.10.2003)	Priority date (day/month/year) 07 October 2002 (07.10.2002)
International Patent Classification (IPC) or national classification and IPC B44C 1/17		
Applicant NISSHA PRINTING CO., LTD.		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 6 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 3 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
 - ☒ Box No. I Basis of the report
 - ☐ Box No. II Priority
 - ☒ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
 - ☐ Box No. IV Lack of unity of invention
 - ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
 - ☐ Box No. VI Certain documents cited
 - ☐ Box No. VII Certain defects in the international application
 - ☒ Box No. VIII Certain observations on the international application

Date of submission of the demand 23 March 2004 (23.03.2004)	Date of completion of this report 02 December 2004 (02.12.2004)
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

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International application No.

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☐ The international application as originally filed/furnished
- ☒ the description:
- pages _____ 1-17 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ 2, 4, 5 _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* 6-9 received by this Authority on 23 March 2004 (23.03.2004)
- pages* 1, 3 received by this Authority on 05 August 2004 (05.08.2004)
- ☒ the drawings:
- pages _____ 1-22 _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

☐ the entire international application.

☒ claims Nos. 3, 5, 6-9

because:

☐ the said international application, or the said claims Nos. _____
relate to the following subject matter which does not require an international preliminary examination (*specify*):

☐ the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____
are so unclear that no meaningful opinion could be formed (*specify*):

☐ the claims, or said claims Nos. _____ are so inadequately supported
by the description that no meaningful opinion could be formed.

☒ no international search report has been established for said claims Nos. 3, 5, 6-9

☐ the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the
Administrative Instructions in that:

the written form

☐ has not been furnished

☐ does not comply with the standard

the computer readable form

☐ has not been furnished

☐ does not comply with the standard

☐ the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with
the technical requirements provided for in Annex C-bis of the Administrative Instructions.

☐ see Supplemental Box for further details.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	2, 4	YES
	Claims	1	NO
Inventive step (IS)	Claims		YES
	Claims	1, 2, 4	NO
Industrial applicability (IA)	Claims	1, 2, 4	YES
	Claims		NO

2. Citations and explanations

Document 1: JP 11-58584 A (Nissha Printing Co., Ltd.), 2 March 1999

Document 2: JP 2000-85299 A (Nissha Printing Co., Ltd.), 28 March 2000

Document 3: JP 2000-108594 A (Nissha Printing Co., Ltd.), 18 April 2000

Document 4: JP 10-16497 A (Nissha Printing Co., Ltd.), 20 January 1998

Claim 1

Documents 1 to 3 indicate that an anchor layer may be provided if a transfer material and pattern layer formed by laminating on a base material sheet a mold-releasing layer in a strip pattern, an ionizing curing layer formed over the entire surface, a pattern layer formed over the entire surface, and an adhesive layer which may be formed partially or over the entire surface, is also provided with a metal thin film layer, therefore the invention set forth in claim 1 lacks novelty and does not involve an inventive step.

Claim 2

The relationship in terms of size between the adhesive layer and mold-releasing layer in the width

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direction of the transfer material is merely a design matter which a person skilled in the art could determine as necessary according to the optimum mode in a transfer material, therefore the invention set forth in claim 2 does not involve an inventive step.

Claim 4

As set forth in document A, a general transfer material having in order laid upon a base material a mold-releasing layer, a peeling-off layer made from ionizing radiation-curing resin or similar material, a pattern layer, and an adhesive layer, wherein an anchor layer is provided in between the peeling-off layer and pattern layer, is common practice, therefore the invention set forth in claim 4 does not involve an inventive step.

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VIII. Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

Amendments have been made at the time of requesting the international preliminary examination, but there is effectively no difference between the claims before and after the amendments, therefore the opinion is the same as in the international search report (In claim 3, the idea that "a peeling-off strength with respect to a resin sheet (144) at portions where mold-releasing layers are not provided is less than 50N/m when peeled off at an angle of 90° with respect to the resin sheet after being bonded to the resin sheet" does not delimit at all "the transfer material", the invention set forth in claim 1, and what is meant by such a description is unclear. In addition, claim 5 refers back to claim 3.

Furthermore, although the invention in claims 6 to 9 basically refers to claim 1, when compared with the emphasis placed on an adhesive layer, the invention in claim 1 having the adhesive layers over the partial surface is not consistent with the inventions in claims 6 to 9 having the adhesive layers over the entire surface, and it is unclear in what case the inventions in claims 6 to 9 are justified while referring back to claim 1).

特 許 協 力 条 約

PCT

特許性に関する国際予備報告（特許協力条約第二章）

（法第12条、法施行規則第56条）
〔PCT36条及びPCT規則70〕

REC'D 23 DEC 2004

WIPO

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出願人又は代理人 の書類記号 664056	今後の手続きについては、様式PCT/IPEA/416を参照すること。	
国際出願番号 PCT/JP03/12760	国際出願日 (日.月.年) 06.10.2003	優先日 (日.月.年) 07.10.2002
国際特許分類 (IPC) Int. Cl. B44C1/17		
出願人 (氏名又は名称) 日本写真印刷株式会社		

<p>1. この報告書は、PCT35条に基づきこの国際予備審査機関で作成された国際予備審査報告である。 法施行規則第57条（PCT36条）の規定に従い送付する。</p> <p>2. この国際予備審査報告は、この表紙を含めて全部で 5 ページからなる。</p> <p>3. この報告には次の附属物件も添付されている。</p> <p>a <input checked="" type="checkbox"/> 附属書類は全部で 3 ページである。</p> <p><input checked="" type="checkbox"/> 補正されて、この報告の基礎とされた及び/又はこの国際予備審査機関が認めた訂正を含む明細書、請求の範囲及び/又は図面の用紙（PCT規則70.16及び実施細則第607号参照）</p> <p><input type="checkbox"/> 第I欄4.及び補充欄に示したように、出願時における国際出願の開示の範囲を超えた補正を含むものとこの国際予備審査機関が認定した差替え用紙</p> <p>b <input type="checkbox"/> 電子媒体は全部で (電子媒体の種類、数を示す)。 配列表に関する補充欄に示すように、コンピュータ読み取り可能な形式による配列表又は配列表に関連するテーブルを含む。（実施細則第802号参照）</p>	
<p>4. この国際予備審査報告は、次の内容を含む。</p> <p><input checked="" type="checkbox"/> 第I欄 国際予備審査報告の基礎</p> <p><input type="checkbox"/> 第II欄 優先権</p> <p><input checked="" type="checkbox"/> 第III欄 新規性、進歩性又は産業上の利用可能性についての国際予備審査報告の不作成</p> <p><input type="checkbox"/> 第IV欄 発明の単一性の欠如</p> <p><input checked="" type="checkbox"/> 第V欄 PCT35条(2)に規定する新規性、進歩性又は産業上の利用可能性についての見解、それを裏付けるための文献及び説明</p> <p><input type="checkbox"/> 第VI欄 ある種の引用文献</p> <p><input type="checkbox"/> 第VII欄 国際出願の不備</p> <p><input checked="" type="checkbox"/> 第VIII欄 国際出願に対する意見</p>	

国際予備審査の請求書を受理した日 23.03.2004	国際予備審査報告を作成した日 02.12.2004	
名称及びあて先 日本国特許庁 (IPEA/JP) 郵便番号100-8915 東京都千代田区霞が関三丁目4番3号	特許庁審査官 (権限のある職員) 藤井 勲	2H 9121
電話番号 03-3581-1101 内線 3231		

様式PCT/IPEA/409 (表紙) (2004年1月)

Originally filed

CLAIMS

1. A transfer member comprising:
a substrate sheet (2, 52);
a mold release layer (3, 53) of a belt-shaped
5 pattern laminated on the substrate sheet;
an ionizing radiation curing layer (4, 54)
laminated all over a surface on the mold release layer;
a patterned layer (5, 55) laminated all over a
surface or partially on the ionizing radiation curing
10 layer; and
an adhesive layer (6, 56) laminated on the
patterned layer only partially in a portion where the
adhesive layer overlaps with the mold release layer.
2. The transfer member as claimed in claim 1, wherein
15 the adhesive layer is laminated in a region narrower along
a direction of width of the transfer member than a region
where the adhesive layer overlaps with the mold release
layer.
3. The transfer member as claimed in claim 1 or 2,
20 wherein, after being bonded to a resin board (144), the
transfer member has a peel strength smaller than 50 N/m
with respect to the resin board in a portion where the mold
release layer is not provided when the transfer member is
peeled off at an angle of 90° with respect to the resin
25 board.

4. The transfer member as claimed in claim 1 or 2, further comprising: an anchor layer (7, 58) laminated wholly or partially between the ionizing radiation curing layer and the patterned layer.

5 5. The transfer member as claimed in claim 3, further comprising: an anchor layer (7, 58) laminated wholly or partially between the ionizing radiation curing layer and the patterned layer.

6. The transfer member as claimed in claim 1, wherein
10 the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is laminated wholly instead of partially on the patterned layer, and

the transfer member further comprises a
15 nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer does not overlap with the mold release layer.

7. The transfer member as claimed in claim 3, wherein
20 the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is laminated wholly instead of partially on the patterned layer, and

the transfer member further comprises a
25 nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer

does not overlap with the mold release layer.

8. The transfer member as claimed in claim 4, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is
5 laminated wholly instead of partially on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer
10 does not overlap with the mold release layer.

9. The transfer member as claimed in claim 5, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is
15 laminated wholly instead of partially on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer
20 does not overlap with the mold release layer.

CLAIMS

1. A transfer member comprising:
a substrate sheet (2, 52);
a mold release layer (3, 53) of a belt-shaped pattern laminated on the substrate sheet;
an ionizing radiation curing layer (4, 54) laminated all over a surface on the mold release layer;
a patterned layer (5, 55) laminated all over a surface or partially on the ionizing radiation curing layer; and
an adhesive layer (6, 56) laminated on the patterned layer only partially in a portion where the adhesive layer overlaps with the mold release layer.
2. The transfer member as claimed in claim 1, wherein the adhesive layer is laminated in a region narrower along a direction of width of the transfer member than a region where the adhesive layer overlaps with the mold release layer.
3. (Amended) A transfer member comprising:
a substrate sheet (2, 52);
a mold release layer (3, 53) of a belt-shaped pattern laminated on the substrate sheet;
an ionizing radiation curing layer (4, 54) laminated all over a surface on the mold release layer;
a patterned layer (5, 55) laminated all over a surface or partially on the ionizing radiation curing layer; and
an adhesive layer (6, 56) laminated on the patterned layer only partially in a portion where the adhesive layer overlaps with the mold release layer,
wherein the substrate sheet is so constructed that the substrate sheet has a peel strength smaller than 50 N/m with respect to the resin board in a portion of the substrate sheet where the mold release layer is not provided when the transfer member is peeled off at an angle of 90° with respect to the resin board after the transfer member is bonded to a resin board (144).
4. The transfer member as claimed in claim 1 or 2, further

comprising: an anchor layer (7, 58) laminated wholly or partially between the ionizing radiation curing layer and the patterned layer.

5. The transfer member as claimed in claim 3, further comprising: an anchor layer (7, 58) laminated wholly or partially between the ionizing radiation curing layer and the patterned layer.

6. (Amended) The transfer member as claimed in claim 1, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is wholly laminated at the portion where the adhesive layer overlaps with the mold release layer as well as the other portion on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer does not overlap with the mold release layer.

7. (Amended) The transfer member as claimed in claim 3, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is wholly laminated at the portion where the adhesive layer overlaps with the mold release layer as well as the other portion on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer does not overlap with the mold release layer.

8. (Amended) The transfer member as claimed in claim 4, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is wholly laminated at the portion where the adhesive layer overlaps with the mold release layer as well as the other portion on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer does not overlap with

the mold release layer.

9. (Amended) The transfer member as claimed in claim 5, wherein the patterned layer is laminated wholly or partially on the ionizing radiation curing layer, the adhesive layer is wholly laminated at the portion where the adhesive layer overlaps with the mold release layer as well as the other portion on the patterned layer, and

the transfer member further comprises a nonadhesive layer (57) laminated on the adhesive layer at least partially in a portion where the nonadhesive layer does not overlap with the mold release layer.